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EXAMINER

TAYONG, HELENE E

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/725,974	Applicant(s) SAVEKAR ET AL.	
	Examiner HELENE TAYONG	Art Unit 2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12/10/09.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 and 22-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 and 22-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to the amendment filed on 12/10/09.

Claims 1-18 and 22-24 are pending in this application and have been considered below.

Response to Arguments

2. Applicant's arguments with respect to rejection of claims 1-6, 11-18 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al (US 20010005398 A1) in view of Wu et al (US 6473558) have been considered but are moot in view of the new ground(s) of rejection because of amendments.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-6, 11-18 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al (US 20010005398 A1) in view of Abelard et al (US 2002 0001458).

(1) with regards to claims 1 and 13;

Kono et al teaches a method (Fig .6) for displaying images on a display

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comprising:

a decoder (52) for decoding encoded images and parameters associated with the images (pg.5, [0066], lines 3-5).

image buffers (58) for storing the decoded images (pg. 5, [0066], lines 7-10) ;

parameter buffers (53) for storing the decoded parameters associated with the decoded images(pg. 5, [0067], lines 2-6) ; and

Kono discloses a display manager (55) and decode control section (64), but does not explicitly teach **determining when to overwrite an existing image in the image buffers and providing a signal to the decoder indicating when to overwrite the existing image in the frame buffer wherein the decoder overwrites the existing image after receiving the signal; and wherein the decoded images are provided for display in the forward order at normal speed.**

wherein at least some of the pictures are stored for at least one display period after the at least some of the pictures are displayed as recited in claim 13.

Kono discloses a frame memory in (fig. 6, 53) with three banks, bank 1, bank 2 and bank 3. Data is transferred (read/written fig. 7, steps S3-S7) from the display control section (55) and MB buffer (58) in to the frame buffer, Kono is not explicit about

(a) determining when to overwrite an existing image in the image buffers and providing a signal to the decoder indicating when to overwrite the existing image in the frame buffer wherein the decoder overwrites the existing image after receiving the signal; and wherein the decoded images are provided for display in the forward order at normal speed; wherein at least some of the pictures are

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stored for at least one display period after the at least some of the pictures are displayed

However, Abelard et al discloses in (figs 1-7) a method for decoding compressed videos. On page 2 [0028] means for monitoring the available for write access of reconstruction buffers and for controlling said video decoder to decode a selected picture upon available of reconstruction buffer, wherein the availability of a reconstruction buffer is determine by the status of the display of picture contained in said reconstruction buffer. In [0050] three buffers (A,B,C)are each corresponding to one decoded picture. In [0072] the display manger also unlocks locking reconstruction buffers, freeing them for the decoding of further pictures, once they are not needed for display any more. In [0077] when a picture to be displayed is decoded, its reconstruction buffer is locked to avoid any overwriting by subsequent pictures before it has been actually displayed.

Abelard et al further discloses display in the forward order at normal speed in [0002] where an order which facilitated their decoding for display in forward direction. In [0003] the pictures are displayed (in forward direction display order). In [0083] forward mode, next returns the ID lowering picture to be displayed according to normal display order.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized the method as taught by Abelard et al in a manner as claimed in this invention for the benefit of establishing an order for decoding pictures according to a display mode and reconstruction buffers for storing decoded pictures.

(2) with regards to claim 2;

Kono further discloses wherein the set of parameters (pg. 5, [0067], lines 2-6) includes a parameter indicating when the system is utilizing a technique requiring selective images to be displayed more than once (pg. 6, [0086], lines 7-11).

(3) with regards to claim 3 ;

Kono further discloses wherein the system for displaying images on a display (fig.6) further comprises:

a first processor (54);

a second processor (55);

a first memory (58);

a second memory(53); and

wherein the first memory stores an instruction set for the decoder (pg.6, [0079]).

(4) with regards to claim 4;

Kono further discloses wherein the first processor (54) executes the instruction for the decoder (pg. 6, [0081] lines 3-4).

(5) with regards to claim 5;

Kono further discloses wherein the second memory stores (53) an instruction set for the display manager (pg.6, [0085], lines 6-8), the instruction set for the display manager (fig.6, 68) executed by the second processor (pg.6, [0085], lines 8-11).

(6) with regards to claim 6;

Kono further discloses wherein the second processor (55) determines when to overwrite the existing image (pg. 6, [0084]-[0086]).

(7) with regards to claim 11;

Kono further discloses the second memory stores the image buffers (fig. 6, 53d), (pg. 5, [0067]).

(8) with regards to claim 12;

Kono further discloses wherein the second memory stores the parameter buffers (fig. 6, 53e), (pg. 6 [0067]).

(9) with regards to claim 14;

Kono further discloses wherein execution of the instructions by the first processor further causes: displaying the images (fig. 7 and fig.8).

(10) with regards to claim 15;

Kono further discloses a second processor connected to the integrated circuit (fig, 6, 55); and

a second memory connected to the processor (fig. 6, 53), the second memory storing instructions, wherein execution of the instructions by the second processor

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causes:

Kono discloses a display manager (55) and decode control section (64), but does not explicitly teach **determining when to overwrite an existing image in the image buffers and providing a signal to the decoder indicating when to overwrite the existing image in the frame buffer wherein the decoder overwrites the existing image after receiving the signal; and wherein the decoded images are provided for display in the forward order at normal speed.**

Kono discloses a frame memory in (fig. 6, 53) with three banks, bank 1, bank 2 and bank 3. Data is transferred (read/written fig. 7, steps S3-S7) from the display control section (55) and MB buffer (58) in to the frame buffer, Kono is not explicit about **determining when to overwrite an existing image in the image buffers and providing a signal to the decoder indicating when to overwrite the existing image in the frame buffer wherein the decoder overwrites the existing image after receiving the signal;**

However, Abelard et al discloses in figs 1-7a method for decoding compressed videos. On page 2 [0028] means for monitoring the available for write access of reconstruction buffers and for controlling said video decoder to decode a selected picture upon available of reconstruction buffer, wherein the availability of a reconstruction buffer is determine by the status of the display of picture contained in said reconstruction buffer. In [0050] three buffers (A,B,C)are each corresponding to one decoded picture. In [0072] the display manger also unlocks locking reconstruction

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buffers, freeing them for the decoding of further pictures, once they are not needed for display any more. In [0077] when a picture to be displayed is decoded, its reconstruction buffer is locked to avoid any overwriting by subsequent pictures before it has been actually displayed.

(11) with regards to claim 16;

Kono further discloses wherein execution of the instructions in the first memory by the first processor further causes: decoding parameters associated with the images (pg.6, [0080]).

(12) with regards to claim 17;

Kono further discloses examining some of the decoded parameters associated with the images by the second processor (pg. 6, [0085], lines 10-11).

(13) with regards to claim 18;

Kono further discloses a parameter buffer (53) connected to the integrated circuit and a frame buffer connected to the integrated circuit (fig.6), wherein the parameter buffer stores the decoded parameters(pg. 5, [0067], lines 2-6), and the frame buffer stores the decoded images (pg. 5, [0067], lines 2-6).

(14) with regards to claim 22;

Kono discloses wherein the (display manager and decoding section) in fig. 6, 55

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and 64) but does not explicitly teach determines when to overwrite an existing image in the image buffer based at least in part on at least one of the decoded parameters.

Kono discloses a frame memory in (fig. 6, 53) with three banks, bank 1, bank 2 and bank 3. Data is transferred (read/written fig. 7, steps S3-S7) from the display control section (55) and MB buffer (58) in to the frame buffer, Kono is not explicit about **determining when to overwrite an existing image in the image buffers and providing a signal to the decoder indicating when to overwrite the existing image in the frame buffer wherein the decoder overwrites the existing image after receiving the signal;**

However, Abelard et al discloses in figs 1-7a method for decoding compressed videos. On page 2 [0028] means for monitoring the available for write access of reconstruction buffers and for controlling said video decoder to decode a selected picture upon available of reconstruction buffer, wherein the availability of a reconstruction buffer is determine by the status of the display of picture contained in said reconstruction buffer. In [0050] three buffers (A,B,C)are each corresponding to one decoded picture. In [0072] the display manger also unlocks locking reconstruction buffers, freeing them for the decoding of further pictures, once they are not needed for display any more. In [0077] when a picture to be displayed is decoded, its reconstruction buffer is locked to avoid any overwriting by subsequent pictures before it has been actually displayed.

(15) with regards to claim 23;

Kono discloses wherein the (display manager and decoding section) in fig. 6, 55 and 64) but does not explicitly teach determines when to overwrite an existing image based on the parameter indicating when the system is utilizing the technique requiring selective images to be displayed more than once.

Kono discloses a frame memory in (fig. 6, 53) with three banks, bank 1, bank 2 and bank 3. Data is transferred (read/written fig. 7, steps S3-S7) from the display control section (55) and MB buffer (58) in to the frame buffer, Kono is not explicit about **determining when to overwrite an existing image in the image buffers and providing a signal to the decoder indicating when to overwrite the existing image in the frame buffer wherein the decoder overwrites the existing image after receiving the signal;**

However, Abelard et al discloses in figs 1-7a method for decoding compressed videos. On page 2 [0028] means for monitoring the available for write access of reconstruction buffers and for controlling said video decoder to decode a selected picture upon available of reconstruction buffer, wherein the availability of a reconstruction buffer is determine by the status of the display of picture contained in said reconstruction buffer. In [0050] three buffers (A,B,C)are each corresponding to one decoded picture. In [0072] the display manger also unlocks locking reconstruction buffers, freeing them for the decoding of further pictures, once they are not needed for display any more. In [0077] when a picture to be displayed is decoded, its reconstruction buffer is locked to avoid any overwriting by subsequent pictures before it has been actually displayed.

(16) with regards to claim 24;

Kono discloses wherein the (display manager and decoding section) in fig. 6, 55 and 64) but does not explicitly teach determine when to overwrite an existing image with another image, wherein the another image and the existing image are from a same video sequence.

Kono discloses a frame memory in (fig. 6, 53) with three banks, bank 1, bank 2 and bank 3. Data is transferred (read/written fig. 7, steps S3-S7) from the display control section (55) and MB buffer (58) in to the frame buffer, Kono is not explicit about **determining when to overwrite an existing image in the image buffers and providing a signal to the decoder indicating when to overwrite the existing image in the frame buffer wherein the decoder overwrites the existing image after receiving the signal;**

However, Abelard et al discloses in figs 1-7a method for decoding compressed videos. On page 2 [0028] means for monitoring the available for write access of reconstruction buffers and for controlling said video decoder to decode a selected picture upon available of reconstruction buffer, wherein the availability of a reconstruction buffer is determine by the status of the display of picture contained in said reconstruction buffer. In [0050] three buffers (A,B,C)are each corresponding to one decoded picture. In [0072] the display manger also unlocks locking reconstruction buffers, freeing them for the decoding of further pictures, once they are not needed for display any more. In [0077] when a picture to be displayed is decoded, its

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reconstruction buffer is locked to avoid any overwriting by subsequent pictures before it has been actually displayed.

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al (US 20010005398 A1) in view of Abelard et al (US 2002 0001458) as applied in claim 6 above, and further in view of Vainsencher (US 5977997).

(1) with regards to claim 7;

Kono et al. discloses in (fig. 1) an integrated circuit comprises the first processor(115) and first memory (125a).

Kono et al modified by Abelard et al fails to teach wherein the second processor is off-chip from the integrated circuit.

However, Vainsencher in the same field of endeavor (MPEG processing) teaches in (fig. 2) a computer system (200) wherein the second processor (202) is off-chip (single chip).

Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to have incorporated the this feature of Vainsencher into the system of Kono et al modified by Abelard et al, in the manner as claimed, for the benefit of increased opportunities for memory sharing (col.9, lines 13-14).

6. Claims 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al (US 20010005398 A1) in view of Abelard et al (US 2002 0001458). as applied in claim 3 above, and further in view of Vainsencher (US 5977997).

(1) with regards to claim 8 ;

Kono et al. discloses in (fig. 1) an integrated circuit comprises the first processor(115) and first memory (125a).

Kono et al as modified by Abelard et al fails to teach wherein the second processor is off-chip from the integrated circuit.

However, Vainsencher in the same field of endeavor (MPEG processing) teaches in (fig. 2) a computer system (200) and where the second memory (fig. 2, 218) is an off-chip memory (single chip).

Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to have incorporated the this feature of Vainsencher into the system of Kono et al modified by Abelard et al, in the manner as claimed, for the benefit of increased opportunities for memory sharing (col.9, lines 13-14).

(2) with regards to claim 10;

Kono et al as modified by Abelard et al fails to teach where the second memory is DRAM.

However, Vainsencher in the same field of endeavor (MPEG processing) teaches in (fig. 2) a computer system (200) and where the second memory is DRAM (implicitly disclosed in the display controller) (col.9, line13-24)).

Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to have incorporated the this feature into the system of Kono, in the manner as claimed, for the benefit of increased opportunities for memory sharing (col.9,

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lines 13-14).

7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al (US 20010005398 A1) in view of Abelard et al (US 2002 0001458) as applied in claim 3 above , and further in view of Xiang et al (US 20070153133 A1).

(1) with regards to claim 9;

Kono et al as modified by Abelard et al discloses all of the subject matter disclosed above but fails to teach wherein the first memory is a SRAM;

However, Xiang et al in the same field of endeavor teaches a SRAM (fig. 2, 204).

It would have been obvious to one of ordinary skill at the time of the invention to utilize the memory of Xiang et al in the method of Kono et al as modified by Abelard et al. in order to provide a video processing system having a processing unit. The motivation to add Xiang et al 's memory in the method of Kono et al as modified by Abelard et al would be to generate random burst addresses for processing of video signal.

8. Claims 1, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al (US 20010005398 A1) in view of Duruoz et al (US 6658056).

(1) with regards to claim 1 and 13;

Kono et al teaches a method (Fig .6) for displaying images on a display comprising:

a decoder (52) for decoding encoded images and parameters associated with the images (pg.5, [0066], lines 3-5).

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image buffers (58) for storing the decoded images (pg. 5, [0066], lines 7-10) ;
parameter buffers (53) for storing the decoded parameters associated with the
decoded images(pg. 5, [0067], lines 2-6) ; and

Kono discloses a display manager (55) and decode control section (64), but does
not explicitly teach **determining when to overwrite an existing image in the image
buffers and providing a signal to the decoder indicating when to overwrite the
existing image in the frame buffer wherein the decoder overwrites the existing
image after receiving the signal; and wherein the decoded images are provided
for display in the forward order at normal speed.**

Kono discloses a frame memory in (fig. 6, 53) with three banks, bank 1, bank 2
and bank 3. Data is transferred (read/written fig. 7, steps S3-S7) from the display control
section (55) and MB buffer (58) in to the frame buffer, Kono is not explicit about
**determining when to overwrite an existing image in the image buffers and
providing a signal to the decoder indicating when to overwrite the existing image
in the frame buffer wherein the decoder overwrites the existing image after
receiving the signal.**

However, Duruoz et al in the same endeavor digital video decoding, buffering
discloses in (fig. 3) DRAM buffer and Video decoder portions of the MPEG receiver. The
picture decode control in fig. 3, 81 contains field sequence control software 80 which
determines the order in which fields are to be decoded and when and to where in the
buffer memory 78 decoded slices are to be written (col. 16, lines 27-45). In fig. 4D
storage techniques which stores the rows of block in the next available rows of memory

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as the fields are successively sent to the display (wherein the decoded images are provided for display in the forward order at normal speed) (col. 23, lines 10-32, col. 24, lines 21-55).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized the method as taught by Duruoz et al to overwrite when the memory is freed in a manner as claimed in this application for the benefit of reducing cost of memory (col. 5, lines 23-27).

(2) with regards to claim 15;

Kono further discloses a second processor connected to the integrated circuit (fig. 6, 55); and

a second memory connected to the processor (fig. 6, 53), the second memory storing instructions, wherein execution of the instructions by the second processor causes:

Kono discloses a frame memory in (fig. 6, 53) with three banks, bank 1, bank 2 and bank 3. Data is transferred (read/written fig. 7, steps S3-S7) from the display control section (55) and MB buffer (58) in to the frame buffer, Kono is not explicit about **determining when to overwrite an existing image in the image buffers and providing a signal to the decoder indicating when to overwrite the existing image in the frame buffer wherein the decoder overwrites the existing image after receiving the signal.**

However, Duruoz et al in the same endeavor digital video decoding, buffering

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discloses in (fig. 3) DRAM buffer and Video decoder portions of the MPEG receiver. The picture decode control in fig. 3, 81 contains field sequence control software 80 which determines the order in which fields are to be decoded and when and to where in the buffer memory 78 decoded slices are to be written (col. 16, lines 27-45). In fig. 4D storage techniques which stores the rows of block in the next available rows of memory as the fields are successively sent to the display (col. 23, lines 10-32, col. 24, lines 21-55).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized the method as taught by Duruoz et al to overwrite when the memory is freed in a manner as claimed in this application for the benefit of reducing cost of memory (col. 5, lines 23-27).

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HELENE TAYONG whose telephone number is (571)270-1675. The examiner can normally be reached on Monday-Friday 8:00 am to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Liu Shuwang can be reached on 571-272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Helene Tayong/
Examiner, Art Unit 2611

February 27, 2010

/Shuwang Liu/

Supervisory Patent Examiner, Art Unit 2611